

United States Coast Guard



**HULL
INSPECTION BOOK**

Name of Vessel		
Official Number	Class	
Date Completed	Location	
Vessel Built in Compliance with SOLAS: 60 74 74/78 N/A		
Route		
Oceans	Limited Coastwise	Lakes / Bays / Sounds
Coastwise	Great Lakes	Rivers
Inspection Type		
Inspection for Certification (COI)	Reinspection <input type="radio"/> Mid-Period <input type="radio"/> Other <input type="radio"/> First <input type="radio"/> Second <input type="radio"/> Third	
	} Passenger vessels only	
Inspectors		
1. _____	3. _____	
2. _____	4. _____	

[illegible]

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during hull inspections of U.S. flagged vessels. The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

NOTE: Guidance on how to conduct hull inspections of U.S. flagged vessels can be found in the Marine Safety Manual (MSM) Volume II, Chapter 6: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

- Review MSIS records.
 - MIPIP
 - MICOI
- Obtain copies of forms to be issued.

- Issue letters/certificates to vessel.
- Complete MSIS entries.
 - MIAR
 - MSDS
 - MIDR
 - VFLD
 - VFID
- Initiate Report of Violation (ROV) if necessary

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Section 1: Administrative Items

IMO Applicability Dates	1
Involved Parties & General Information	2
Vessel Information	3
Vessel Description	3
Section 2: Certificates and Documents	
Certificates.....	4
Logs and Manuals.....	7
Pollution Prevention Records	7
Section 3: Inspection Items	
Navigation Equipment	9
General Health and Safety	11
Structural Integrity.....	12
Integral Cargo Tanks.....	14
Ground Tackle	16
Lifesaving Equipment.....	16
Fire Protection	22
Pollution Prevention	24
Section 4: Drills	
Fire Drill	26
Abandon Ship Drill	27
Section 5: Appendices	
Recommended US Vessel Deficiency Procedures.....	28
Deficiency Summary Worksheet.....	29
Notes	31
Conversions.....	34

Name of Vessel

Deficiency

**Req't. Issued /
Date Completed**[illegible]

Vessel's Representatives

Owner—Listed on DOC (if applicable), or COFR

No Change

No Change

☐ **Abandon Ship Drill:**

General alarms / signals	Familiarity with duties	Boat release
Muster lists	Provide equipment	Boat operation
Muster of crew / passengers	Familiarity with equipment	Egress procedures
Crew response	Lower lifeboat	Davit-launched liferaft drill
Language understood by crew	Brake operation	Communication w/ bridge
Lifejackets	Engine start	Lighting

(SOLAS 74/78 III/18.3; MSM Vol. II/22.C.7.h)

Location: _____ Time to Water: _____

Notes: _____

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Section 2: Certificates and Documents

Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endors. Date
Certificate of Documentation No Change	USCG					
Classification Document No Change						
Certificate of Financial Responsibility (COFR) No Change	USCG					
Safety Construction (SLC) No Change						
Safety Equipment (SLE) No Change	USCG					
Safety Radio (SLT) No Change						

<input type="checkbox"/>	Cargo oil containment	33 CFR 155.310
	<ul style="list-style-type: none"> • Size • Drains • Scupper closures 	
<input type="checkbox"/>	Fuel oil containment	33 CFR 155.320
	<ul style="list-style-type: none"> • Portable • Fixed 	
<input type="checkbox"/>	Prohibited oil spaces	33 CFR 155.470
<input type="checkbox"/>	Emergency shutdown	33 CFR 155.780
<input type="checkbox"/>	Deck lighting	33 CFR 155.790
<input type="checkbox"/>	Oil transfer hose	33 CFR 155.800
	<ul style="list-style-type: none"> • Condition • Markings • Hose assembly requirements • Tests and inspections 	
<input type="checkbox"/>	Fuel tank vents	
	<ul style="list-style-type: none"> • Flame screens • Closures • Pollution containment 	33 CFR 155.320
<input type="checkbox"/>	Garbage	33 CFR 151.63 MARPOL Ax. V/3
	<ul style="list-style-type: none"> • Shipboard garbage properly disposed 	

Notes: _____

Certificates:

<input type="checkbox"/>	ISM Code	SOLAS 74/78 IX/3
	<ul style="list-style-type: none"> • Safety Management System • Shipboard Operations Plan 	
<input type="checkbox"/>	Stability letter posted in pilothouse	46 CFR 78.12-1 46 CFR 97.11-1 ICLL Reg. 10(2)
<input type="checkbox"/>	Annual drug and alcohol program audit	46 CFR Part 16
<input type="checkbox"/>	Officers' licenses current	
<input type="checkbox"/>	GMDSS endorsement	47 CFR Part 80
	FCC Station License	
	Safety Radio Certificate	
<input type="checkbox"/>	GMDSS maintenance personnel	47 CFR 80.1074
	1st Class Radiotelegraph Operator's Certificate	
	2nd Class Radiotelegraph Operator's Certificate	
	3rd Class Radiotelegraph Operator's Certificate	
<input type="checkbox"/>	Required international safety convention certificates posted and valid	
<input type="checkbox"/>	Liferaft servicing certificates	46 CFR 160.151-57(p) SOLAS 74/78 III/19.8
	<ul style="list-style-type: none"> • Annual service 	
<input type="checkbox"/>	Cargo Gear Certificate	46 CFR 91.37-75

Notes: _____

- ☐ **Fixed fire extinguishing systems**
- Controls, instructions, marking 46 CFR 71.25-20(a)(2)
 - Alarms tested 46 CFR 71.25-20(a)(3)
 - Piping 46 CFR 76.15
 - Heads, distribution 46 CFR 76.17
 - Bottles weighed annually 46 CFR 76.23
 - Bottles hydrostatically tested (every 12 years) 46 CFR 76.25
 - Flexible loops tested or replaced (10% per year) 46 CFR 91.25-20(a)(2)
 - Foam tanks (refilled or tested) 46 CFR 91.25-20(a)(3)
 - Sea suction, strainers 46 CFR 95.15
 - Fixed system tested 46 CFR 95.17
 - Storage space / door SOLAS 74/78 II-2/21
 - Sprinkler head tank MSM Ch. 18.I.9
 - NVIC 6-72, Change 1
 - NVIC 8-73

Type of system: (circle appropriate type)				
Low Pressure CO ₂	High Pressure CO ₂	Halon	Foam	Sprinkler

- ☐ **Fire main system**
- Pumps 46 CFR 76.10
 - Piping 46 CFR 95.10
 - Cut-off valves NVIC 6-72, Change 1
 - Drains SOLAS 74/78 II-2/4

- ☐ **Fire stations**
- Hydrants (2 effective streams) 46 CFR 76.10-10
 - Nozzles and spanners 46 CFR 95.10-10
 - Fog applicators (<6 feet in length, in engineroom) NVIC 6-72, Change 1
 - Hose SOLAS 74/78 II-2/4
 - UL approved SOLAS 74/78 II-2/21
 - Correct length
 - Markings
 - Equipment compatible

- ☐ **Total length of all hose tested _____**
- Hydrostatically tested to at least 100 psi 46 CFR 76.10-10
 - Proper threads 46 CFR 95.10-10
 - Approved hose MSM Ch. 18.I.6
 - 46 CFR 91.25-20(a)(4)
 - 46 CFR 71.25-20(a)(4)

Notes: _____

- ☐ **Shipboard oil pollution emergency plan**
- Approved by Coast Guard / class society MARPOL Ax. I/26.1
 - Contact numbers correct 33 CFR 151.26
 - Immediate Actions List

- ☐ **Vessel response plan**
- (vessels carrying oil as secondary cargo)
- 33 CFR 155.1030
- 33 CFR 155.1045

- Approved by Coast Guard 33 CFR 155.1065
- Annual review by owner / operator 33 CFR 155.1070

- ☐ **Oil transfer procedures**
- 33 CFR 155.720

- Posted
- List of products carried by vessel
- Description of transfer system including a line diagram of piping
- Number of persons required on duty
- Duties by title of each person
- Means of communication
- Procedures to top off tanks
- Procedures to report oil discharges

Notes: _____

<input type="checkbox"/>	Lifefloats and buoyant apparatus	46 CFR 199.640
	<ul style="list-style-type: none"> • Equipment • Stowage • Markings 	
<input type="checkbox"/>	Line-throwing apparatus	46 CFR 199.170
	<ul style="list-style-type: none"> • Equipment • Required drills held • Magazine • Type _____ 	SOLAS 74/78 III/17.49 MSM Ch. 6.R.3.s
<input type="checkbox"/>	Lifebuoys	46 CFR 199.70(a)
	<ul style="list-style-type: none"> • Lights • Lines • Smoke signals • Stowage • Markings 	SOLAS 74/78 III/7 SOLAS 74/78 III/21 SOLAS 74/78 III/27 MSM Ch. 6.R.3.i
<input type="checkbox"/>	Lifejackets	46 CFR 199.70(b)
	Adult _____ Children _____	SOLAS 74/78 III/7.2.2 MSM Ch. 6.R.3.m MSM Ch. 6.R.3.q
	<ul style="list-style-type: none"> • Retro-reflective tape • Lights • Whistles • Work vests • Stamped passed • Number of lifejackets rejected by inspector _____ 	
<input type="checkbox"/>	Lifejacket stowage	46 CFR 199.70(b)
	<ul style="list-style-type: none"> • Required notices and markings • Stowage lockers • Wearing instructions • Location instructions (passenger vessels) 	SOLAS 74/78 III/7.2 46 CFR 199.80(c) 46 CFR 199.70(b)(2) 46 CFR 199.80(c) 46 CFR 199.217
<input type="checkbox"/>	Stateroom notices posted	46 CFR 199.80(c)
<input type="checkbox"/>	Immersion suits	46 CFR 199.273
	<ul style="list-style-type: none"> • Condition • Retro-reflective material 	SOLAS 74/78 III/21.4 SOLAS 74/78 III/27.3 SOLAS 74/78 III/30.2.7 MSM Ch. 6.R.3.n

Notes: _____

<input type="checkbox"/>	Radio equipment	33 CFR 26.03 SOLAS 74/78 V/7 SOLAS 74/78 V/12 33 CFR 164.41 NVIC 9-93
	<ul style="list-style-type: none"> • Radios, RDF, Loran • Electronic position fixing device tested • GMDSS meets requirements for vessel operating area 	
<input type="checkbox"/>	Internal communications and control system	46 CFR 113.30
	<ul style="list-style-type: none"> • EOT failure alarms • Telephones • Voice tubes • Emergency loudspeaker system • Public address system • Bell pulls • Pilothouse controls 	46 CFR 113.35 46 CFR 113.50
<input type="checkbox"/>	Navigation lights and signals	72 COLREGS
	<ul style="list-style-type: none"> • Control panels • Running lights • Anchor lights • Special day and night signals • Distress signals and stowage • Flag signals, international code • Whistle, light, bells, gongs • Day and night signal devices • Certificate of Alternate Compliance 	 46 CFR 199.60 33 CFR 81.9
<input type="checkbox"/>	Steering gear	33 CFR 164.35 MSM Ch. 14.B
	<ul style="list-style-type: none"> • Main gear tested (all stations) • Auxiliary gear tested (all stations) • Instructions and markings • Rudder angle indicator • Illumination • Alarms • Block diagram 	 46 CFR 113.43
<input type="checkbox"/>	Maneuvering facts sheet with warning statements	33 CFR 164.35

Notes: _____

- | | |
|---|---|
| <input type="checkbox"/> Disengaging apparatus examined or tested and marked as required* | 46 CFR 199.45(b)
SOLAS 74/78 III/41
MSM Ch. 6.R.3.a |
| <ul style="list-style-type: none"> • Universal joints • Safety latches • Hooks • Locking knuckles • Frame | |
| <input type="checkbox"/> Motor lifeboats* | 46 CFR 199.45(b)
SOLAS 74/78 III/41
MSM Ch. 6.R.3.e |
| <ul style="list-style-type: none"> • Engine operating test • Cooling water pump • Ahead and astern test • Fuel tanks • Searchlight test (passenger vessels) • Annual fuel changed • Extinguishers serviced | |
| <input type="checkbox"/> Hand-propelled lifeboats* | 46 CFR 199.45(b) |
| <ul style="list-style-type: none"> • Flemming gear • Transmission oil | |
| <input type="checkbox"/> Radio installation for lifeboats complies with FCC and/or international convention (where required)* | 46 CFR 199.60
SOLAS 74/78 III/6
MSM Ch. 6.R.3.I |
| <ul style="list-style-type: none"> • Portable • Fixed | |
| <input type="checkbox"/> Lifeboat operational test* | 46 CFR 199.45(b)
SOLAS 74/78 III/19
MSM Ch. 6.R.3.a |
| <input type="checkbox"/> Davits | 46 CFR 160.032
SOLAS 74/78 III/48
MSM Ch. 6.R.3.a |
| <ul style="list-style-type: none"> • Foundations • Moving parts • Fittings • Fairleads, cleats, or cruciform bits | |
| <input type="checkbox"/> Falls (date last renewed or end-for-ended)
_____ | 46 CFR 199.190(j)
SOLAS 74/78 III/48
MSM Ch. 6.R.3.a(1) |

* Items tested in conjunction with Abandon Ship Drill.

Notes: _____

- | | |
|--|---|
| <input type="checkbox"/> Galley | MSM Ch. 6.P.8
MSM Ch. 13.C |
| <ul style="list-style-type: none"> • Equipment • Sanitation • Ventilation | |
| <input type="checkbox"/> Means of escape from accommodation, machinery, and other spaces | 46 CFR 72.10
46 CFR 92.10
SOLAS 74/78 II-2/45 |
| <ul style="list-style-type: none"> • Two required (some exceptions) • Dead end corridors • Absence of locks | |
| <input type="checkbox"/> Gas freeing for repairs | MSM Ch. 5.I |
| <ul style="list-style-type: none"> • Current Gas Chemist Certificate for areas as required • Date _____ • Chemist No. _____ | |

Structural Integrity:

- | | |
|--|--|
| <input type="checkbox"/> Hull structure (list inaccessible compartments or areas) | 46 CFR 72.01
46 CFR 92.01
ICLL 66 Reg. 1 |
| <ul style="list-style-type: none"> • Decks • Shell • Bulkheads • Tank tops • Strength members | |
| <input type="checkbox"/> Hull openings and closures | 46 CFR 42.15
MSM Ch. 6.F.5
ICLL 66 Regs. 12 - 23 |
| <ul style="list-style-type: none"> • Side ports • Air ports and dead covers • Refuse chutes • Hatch covers • Closing devices, gaskets • Light / water test | |
| <input type="checkbox"/> Deck openings and closures | MSM Ch. 6.F.5
ICLL 66 Regs. 12 - 20 |
| <ul style="list-style-type: none"> • Closing devices • Gaskets • Light / water test | |

Notes: _____

- ☐ Lifeboat equipment and stowage
(use table below to determine required equipment)

46 CFR 199.175
SOLAS 74/78 III/41

Item Number	Item	International Voyage		Short International Voyage	
		Lifeboat	Rescue Boat	Lifeboat	Rescue Boat
1	Bailer ¹	1	1	1	1
2	Bilge pump ²	1		1	
3	Boathook	2	1	2	1
4	Bucket ³	2	1	2	1
5	Can opener	3		3	
6	Compass	1	1	1	1
7	Dipper	1		1	
8	Drinking cup	1		1	
9	Fire extinguisher	1	1	1	1
10	First aid kit	1	1	1	1
11	Fishing kit	1			
12	Flashlight	1	1	1	1
13	Hatchet	2		2	
14	Heaving line	2	2	2	2
15	Jackknife	1		1	
16	Knife ^{1,4}		1		1
17	Ladder	1	1	1	1
18	Mirror, signalling	1		1	
19	Oars, units ^{5,6}	1	1	1	1
20	Painter	2	1	2	1
21	Provisions (units/persons)	1			
22	Pump ⁷		1		1
23	Radar reflector	1	1	1	1
24	Rainwater collection device	1		1	
25	Repair kit ⁷		1		1
26	Sea anchor	1	1	1	1
27	Searchlight	1	1	1	1
28	Seasickness kit (units/person)	1		1	

- ☐ Hull marks

46 CFR 67.120

- Name
- Hailing port
- Official number
- Net tonnage

- ☐ Draft marks

46 CFR 78.50-10
46 CFR 97.40-10

- Legible
- Properly sized
- Properly spaced

- ☐ Load line marks

46 CFR 78.50-15
46 CFR 97.40-15
ICLL 66 Reg. 4-9

- Conform to certificate
- Legible

Integral Cargo Tanks:

- ☐ Warning notices and signals posted

46 CFR 70.05-30
46 CFR 90.05-35
MSM Ch. 10.C.4

- ☐ Pumps

46 CFR 70.05-30
46 CFR 90.05-35
MSM Ch. 10.C.4

- Pumps and controls
- Relief valves
- Piping-valves
- Lighting and wiring
- Cofferdams

46 CFR 111.105

- ☐ Cargo spaces

46 CFR 91.15-1
46 CFR 91.25-37

- Trunks and hatches
- Ullage openings
- Liquid level gauges
- Deck penetrations
- Heating coils
- Internal examination

Notes: _____
